US ERA ARCHIVE DOCUMENT

Name of State:

#### RCRA REVISION CHECKLIST 206 Nonwastewaters from Dyes and Pigments 70 FR 9138 – 9180 February 24, 2005 (RCRA Cluster XV, HSWA)

As amended on June 16, 2005 at 70 FR 35032

- 1) A correction was made to this rule at 70 FR 35032 (June 16, 2005). The sections affected are: 40 CFR 261.32(d)(2) and 261.32(d)(3)(iv)(B). States are encouraged to adopt the correction at the same time that the February 24, 2005 provisions are adopted. Those states that will incorporate the July 1, 2005 Code of Federal Regulations by reference, should include language that references or otherwise includes the correction published in the Federal Register on June 16, 2005 to ensure accuracy of regulations.
- 2) States are encouraged to adopt these provisions and begin implementing them while seeking authorization.

State Statutory Authority:						
Title of Regulations:	Effective Date:					
Date Checklist Completed:						
FEDERAL REQUIREMENTS	FEDERAL RCRA	ANALOGOUS STATE CITATION			NALOG IS: MORE	
	CITATION		EQUIV- ALENT	LESS STRIN- GENT	STRIN- GENT	BROADER IN SCOPE
PART 261 – I	DENTIFICATION ANI	D LISTING OF HAZA	ARDOU	S WAST	Έ	
	SUBPART A	A GENERAL				
EXCLUSIONS						
revise paragraph (b)(15) to	261.4					
read as follows:						
Leachate or gas condensate	261.4(b)(15)					
from landfills where certain						
solid wastes are disposed						
provided that:						

	EEDED AL DOD A	ANALOGOLIG GT ATTE		STATE A	NALOG IS:	
FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
Solid wastes would meet	261.4(b)(15)(i)					
one or more of the listing						
descriptions for Hazardous						
Waste Codes K169, K170,						
K171, K172, K174, K175,						
K176, K177, K178, and						
K181 if these wastes had						
been generated after the						
effective date of the listing;						
Solid wastes in (b)(15)(i)	261.4(b)(15)(ii)					
were disposed prior to the						
effective date of listing;						
The leachate or gas	261.4(b)(15)(iii)					
condensate do not exhibit						
any characteristic of						
hazardous waste nor are						
derived from any listed						
hazardous waste;						
Discharge of the leachate or	261.4(b)(15)(iv)					
gas condensate, including						
that transferred from the						
landfill to a POTW, is						
subject to regulation under						
section 307(b) or 402 of the						
Clean Water Act.						

				IS:		
FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
As of February 13, 2001,	261.4(b)(15)(v)					
leachate or gas condensate						
derived from K169 – K172						
is no longer exempt if						
managed in surface						
impoundment prior to						
discharge. As of November						
21, 2003, leachate or gas						
condensate from K176,						
K177, and K178 is no						
longer exempt if managed in						
surface impoundment prior						
to discharge. After February						
26, 2007, leachate or gas						
condensate from K181 will						
no longer be exempt if						
managed in surface						
impoundment prior to						
discharge. One exception: if						
surface impoundment is						
used temporarily in an						
emergency, provided						
impoundment has a double						
liner, and the leachate or gas						
condensate is managed in						
compliance w/ b(15)(v) after						
emergency ends.						
S	SUBPART D – LISTS C	OF HAZARDOUS WA	STES			
HAZARDOUS WASTES FR	OM SPECIFIC SOURCE	CES			•	
amended by designating the	261.32					
existing text and table as (a);						
adding a new entry under						
the heading "Organic						
Chemicals" in the table; and						
adding paragraphs (b), (c),						
and (d) to read as follows:						
261.32(a) reads as follows:	261.32(a)				<u> </u>	
Industry and EPA		Hazardous waste				Hazard
hazardous waste No.						code
* *	*	* *		*		*

				STATE A	NALOG IS:	
FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
	Organic	Chemicals				
* *	*	* *		*		*
commat the paragram (c) level the not critering 265.30 258.44 Subtite the purification (b)(1) demons to was	rastewaters from the product ningled at the point of general point of generation, contain raph (c) of this section that a vels, as determined on a cale onwastewaters are: (i) dispose a in 258.40, (ii) disposed in 01, (iii) disposed in other Su 0, 264.301, or 265.301, or (in the C, or an onsite combustion proses of this listing, dyes a of this section. Paragraph (constraining that a facility's non- stess that are otherwise identical	tion with nonwastewaters mass loadings of any of the re equal to or greater than and ar year basis. These was ed in a Subtitle D landfill and Subtitle D landfill units that but the D landfill units that but that is permitted unit that is permitted unit and/or pigments production of this section describes wastewaters are not K181 fied as hazardous under 21	from other constitute correst stess will runit subject to emeet the comment that der the Claritation is defined the process. This list 16.21-261.	er processe tents identi- sponding p not be haza ct to the de- cither 264.3 design crite- is permitte ean Air Ac d in paragr ss for ing does n .24 and 26	s) that, fied in aragraph rdous if esign 801or eria in ed under et. For aph ot apply 1.31-	(T)
	<ol> <li>at the point of generation and any annual mass loading line</li> </ol>		t apply to	wastes ger	nerated	
* *	*	* *		*		*
Listing of Specific Definitions: (1) For the purposes of the K181 listing, dyes and/or pigments production is defined to include manufacture of the following classes: dyes, pigments, FDA certified colors classified as azo, triarylmethane, perylene or anthraquinone classes. Azo products include azo, monoazo, diazo, triazo, polyazo, azoic, bensidine and pyrazolone. Triarylmethane products include triphenylmethane products too. Wastes not generated at dyes and/or pigments manufacturing site are not included in the listing.	261.32(b)					

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FEDERAL REQUIREMENTS	F	EDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
K181 Listing Levels. Nonwastewaters containing constituents in amounts equal to or exceeding the following levels in a calendar year are subject to K181 listing, unless certain conditions are met.	261.3	72(c)			GLAVI	CLAY	
Constituent		Chemical a	abstracts No.	N	Mass lev	els (kg/y	r)
Aniline		62-53-3 90-04-0 106-47-8 120-71-8 95-68-1 95-54-5 108-45-2	iostracts Ivo.	9,300 110 4,800 660 100 710 1,200	viass iev	CIS (Rg/y)	
K181. The procedures described in (d)(1)-(d)(3) and (d)(5) establish when nonwastewaters are not hazardous. If the nonwastewaters are disposed in landfill units or treated in combustion units, then they are not hazardous. Generator must maintain documentation described in (d)(4).							

	FEDERAL DODA	ANALOGOUS STATE	STATE ANALOG IS:				
FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE	
Determination based on no	261.32(d)(1)						
K181 constituents.							
Generators that have							
knowledge that their wastes							
contain no K181							
constituents can use this to							
make determination.							
Generator must document							
annually and keep these for							
three years.							
Determination for generated	261.32(d)(2)						
quantities of 1,000 MT/yr or							
less of wastes that contain							
K181 constituents. If the							
total annual quantity of							
dyes/pigments is 1,000 MT							
or less, the generator can							
use knowledge of the wastes							
to conclude that annual							
mass loadings are below the							
listing levels of paragraph							
(c). The generator must:							
Each year document the	261.32(d)(2)(i)						
basis for determining the							
annual quantity will be less							
than 1,000 MT							
Track the actual quantity of	261.32(d)(2)(ii)						
nonwastewaters from Jan. 1							
– Dec. 31 of each year. If							
the actual quantity exceeds							
1,000 MT, the generator							
must comply w/ paragraph							
(d)(3) for remainder of year.	2 (1 22 (1) (2) (!!!)						
Keep a running total of	261.32(d)(2)(iii)						
K181 constituent mass							
loadings over the calendar							
year.	261 22(1)(2)(1)						
Keep the following records	261.32(d)(2)(iv)						
on site for the three most							
recent years:							

			STATE ANALOG IS:			
FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
Quantity of dyes/pigment nonwastewaters generated.	261.32(d)(2)(iv)(A)					
Process information used	261.32(d)(2)(iv)(B)					
Calculations used to	261.32(d)(2)(iv)(C)					
determine annual total mass						
loadings for each K181						
constituent.						
Determination for generated	261.32(d)(3)					
quantities greater than 1,000						
MT/yr for wastes that						
contain K181 constituents.						
If the total annual quantity						
of dyes/pigments						
nonwastewaters is greater						
than 1,000 MT the generator						
must comply $w/(d)(3)(i) -$						
(d)(3)(xi) in order to make						
determination that waste is						
not K181.						
Determine which K181	261.32(d)(3)(i)					
constituents are expected to						
be present.						
If 1,2-phenylenediamine is	261.32(d)(3)(ii)					
present, generator can use						
knowledge or sampling to						
determine level of						
constituent in wastes. For						
determinations based on						
knowledge, generator must						
comply $w/(d)(2)$ and keep						
records described in						
(d)(2)(iv). For sampling						
based determinations,						
generator must comply w/						
requirements described						
below.						
Develop a sampling plan. At	261.32(d)(3)(iii)					
a minimum, the plan must						
include:						

	EEDED AL DOD A	ANALOGOUS STATE	STATE ANALOG IS:				
FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE	
Discussion of number of samples needed;	261.32(d)(3)(iii)(A)						
Sample collection method;	261.32(d)(3)(iii)(B)						
Discussion of how sampling accounts for temporal and spatial variability.	261.32(d)(3)(iii)(C)						
Description of the test methods.	261.32(d)(3)(iii)(D)						
Collect and analyze samples.	261.32(d)(3)(iv)						
Sampling and analysis must be precise, unbiased and representative of wastes.	261.32(d)(3)(iv)(A)						
Measurements must be sensitive, accurate, and precise.	261.32(d)(3)(iv)(B)						
Record analytical results.	261.32(d)(3)(v)						
Record the waste quantity.	261.32(d)(3)(vi)						
Calculate constituent- specific mass loadings.	261.32(d)(3)(vii)						
Keep total of K181 mass loadings over calendar year.	261.32(d)(3)(viii)						
Determine whether the mass of any K181 constituent generated over the year is below the listing levels.	261.32(d)(3)(ix)						
Keep the following records on site for the three most recent years:	261.32(d)(3)(x)						
Sampling and analysis plan.	261.32(d)(3)(x)(A)						
Sampling and analysis results.	261.32(d)(3)(x)(B)						
Quantity of dyes/pigment nonwastewaters generated.	261.32(d)(3)(x)(C)						
Calculations performed to determine annual mass loadings.	261.32(d)(3)(x)(D)						

	EEDED AL DCD A	ANALOGOUS STATE	STATE ANALOG IS:				
FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE	
Nonhazardous waste determinations must be conducted annually to verify they remain nonhazardous.	261.32(d)(3)(xi)						
Annual testing is suspended after three consecutive annual demonstrations wastes are nonhazardous.	261.32(d)(3)(xi)(A)						
Annual testing requirements are reinstated if the manufacturing or waste treatment processes are altered.	261.32(d)(3)(xi)(B)						
If testing requirements are suspended, the generator must keep records of the process knowledge used to support nonhazardous determination. If testing is reinstated, a description of process change must be reinstated.	261.32(d)(3)(xi)(C)						
Recordkeeping for the landfill disposal and combustion exemptions. The generator must maintain on site for three years documentation demonstrating that each shipment of waste was received by a landfill unit that is subject to or meets design standards in the listing description, or was treated in combustion units in listing description.	261.32(d)(4)						

	EEDED AT DCD A	ANALOGOUG CTATE	STATE ANALOG IS:					
FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT		MORE STRIN- GENT	BROADER IN SCOPE		
Waste holding and handling.	261.32(d)(5)							
The generator is responsible								
for storing wastes								
appropriately. If wastes are								
hazardous and generator has								
not complied w/ Subtitle C								
requirements, the generator								
could be subject to an								
enforcement action.								
add the following entries in	261 Appendix VII							
alphanumeric order to read								
as follows:								
EPA hazardous waste No.	На	Hazardous constituents for which listed						
*	*	*			*			
K181	Aniline, o-anisidine, 4	l-chloroaniline, p-cresi	dine, 2,	4-dimethyla	niline, 1	,2-		
	phenylenediamine, 1,3	3-phenylenediamine.						
*	*	*			*			
add the following entries in	261 Appendix VIII							
alphabetical order to read as								
follows:								
				Chemica	l Haz	ardous		
Common name	Ch	emical abstracts name		abstracts	ets waste No.			
				No.				
* *	*	* *		*		*		
o-Anisidine (2-methoxyanilin	e) Benzenam	ine, 2-Methoxy		90-04-0				
* *	*	* *		*	:	*		
p-Cresidine	. 2-Methoxy-5-methy	lbenzenamine	1	120-71-8		 *		
2,4-Dimethylaniline (2,4-		imethyl		95-68-1				
xylidine)	Denzenamme, 2,4-u	iiiieury1	•••	93-00-1	•••••	• • • • • • • • •		
* *	*	* *		*		*		
1,2-Phenylenediamine	1.2-Renzenediamine	<b>5</b>		95-54-5				
* * *	*	* *	•••	*	•••••	*		
1,3-Phenylenediamine	1 3-Benzenediamine	2	1	108-45-2				
* * *	*	* *	•••	*	•••••	*		
	PART 268 – LAND DI	SPOSAL RESTRICTI	ONS					
,	BPART C – PROHIBIT							
WASTE SPECIFIC PROHIB					S			
				J. 1 1111DIL	<u>-~</u>			

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	EEDED AL DOD A	ANALOGOLIG GTATE	STATE ANALOG IS:			
FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE
amended by adding 268.20 and adding and reserving 268.21 through 268.29 to read as follows:	268.20					
Effective August 23, 2005, K181 waste and soil, debris, or radioactive waste mixed with this waste are prohibited from land disposal.	268.20(a)					
The requirements of paragraph (a) of this section do not apply if:	268.20(b)					
The wastes meet the applicable treatment standards specified in subpart D.;	268.20(b)(1)					
Persons have been granted an exemption pursuant to a petition under 268.6;	268.20(b)(2)					
Wastes meet treatment standards pursuant to a petition under 268.44;	268.20(b)(3)					
Hazardous debris has met the treatment standards in 268.40 or in 268.45; or	268.20(b)(4)					
Persons have been granted an extension to the effective date of a prohibition pursuant to 268.5.	268.20(b)(5)					

	FEDERAL RCRA	ANALOGOUS STATE	STATE ANALOG IS:				
FEDERAL REQUIREMENTS	CITATION	CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE	
To determine whether a	268.20(c)						
hazardous exceeds the							
treatment standards in							
268.40, the initial generator							
must test a sample of the							
waste, or the generator may							
use knowledge of the waste.							
If the waste contains							
constituents in excess of							
subpart D levels, it is							
prohibited from land							
disposal and all requirement							
of part 268 apply.							
	SUBPART D – TREA	TMENT STANDAR	DS				
APPLICABILITY OF TREA	TMENT STANDARDS						
the Table of Treatment	268.40/ Treatment						
Standards is amended by	Standard Table						
revising the entry for F039							
to add constituents in							
alphabetical sequence and							
by adding in alphanumeric							
order the entry for K181 to							
read as follows:							

FEDERAL REQUIREMENTS			ANALOGOUS STATE		STATE ANALOG IS:				
		FEDERAL RCRA CITATION ANALOGOUS STATE CITATION		ALENT S	LESS MORE TRIN-STRIN- GENT GENT	BROADER IN SCOPE			
TREATMENT STANDARDS FOR HAZARDOUS WASTES									
[Note: NA means not applicable]									
Waste code	Waste description and treatment/regulatory subcategory <sup>1</sup>	Regulated hazard	Wastewat Concentra	tion Concent	Nonwastewater Concentration in mg/kg <sup>5</sup> unless				
		Common name	$CAS^2$	in mg/ L <sup>3</sup> technolo code <sup>4</sup>	or noted a TCL	s "mg/L P", or ogy code			
*		* *	*	*		*			
F039	Leachate (liquids that have percolated through land disposed wastes) resulting from the disposal of more than one restricted waste classified as hazardous under Subpart D of this part. (Leachate resulting from the disposal of one or more of the following EPA hazardous Wastes and no other Hazardous Waste retains its EPA Hazardous Waste Number(s); F020, F021, F022, F026, F027, and/or F028).	methoxyaniline)  * * * * *	90-04-0	0.010	0.66				
			120-71-8	0.010	0.66				
		2,4-Dimethylaniline (2,4-xylidine)  * * * * *	95-68-1	0.010	0.66				
		,	108-45-2	0.010	0.66				
*	*	* *	*	*		*			
K181	Nonwastewaters from the production of dyes and/or pigments (including		62-53-3 90-04-0	0.81 0.010	14 0.66				
	nonwastewaters	4-	106-47-8	0.46	16				
	commingled at the point of generation with nonwastewaters from other processes) that, at the point of generation, contain mass loadings of any of the constituents identified in paragraph (c) of section 261.32 that are equal to or greater than the corresponding paragraph (c) levels, as determined on a calendar year basis.	t Chloroaniline p- Cresidine	120-71-8	0.010	0.66				
		2,4-Dimethylaniline (2,4-xylidine)	95-68-1	0.010	0.66				
		c) re	95-54-5	CMBST; or CHOXD fb (BIODG or CARBN); or BIODG fb CARBN	CHOXD (BIODG	ofb or ); or fb			

	RAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	STATE ANALOG IS:					
FEDERAL REQ				EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE		
1,3-			108-45-2	0.010		0.66			
Phenylenediamine									
*	*	*	*	*	>	*		*	

#### Footnotes to Treatment Standard Table 268.40

- 1 The waste descriptions provided in this table do not replace waste descriptions in 40 CFR Part 261. Descriptions of Treatment/ Regulatory Subcategories are provided, as needed, to distinguish between applicability of different standards
- 2 CAS means Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its salts and/or esters, the CAS number is given for the parent compound only.
- 3 Concentration standards for wastewaters are expressed in mg/L and are based on analysis of composite samples.
- 4 All treatment standards expressed as a Technology Code or combination of Technology Codes are explained in detain in 40 CFR 268.42 Table 1- Technology Codes and Descriptions of Technology-Based Standards.
- Except for Metals (EP or TCLP) and Cyanides (Total and Amenable) the nonwastewater treatment standards expressed as a concentration were established, in part, based upon incineration units operated in accordance with the technical requirements of 40 CFR part 264, Subpart O or 40 CFR part 265, Subpart O, or based upon combustion in fuel substitution units operating in accordance with applicable technical requirements. A facility may comply with these treatment standards according to provisions in 40 CFR 268.40(d). All concentration standards for nonwastewaters are based on analysis of grab samples.

# UNIVERSAL TREATMENT STANDARDS amended by adding in alphabetical sequence the following entries under organic constituents: 268.48/ Universal Treatment Standards Treatment Standards Table

Universal Treatment Standards [Note: NA means not applicable]

Regulated constituent common name				CAS <sup>1</sup> number	Wastewater standard Concentration in mg/L <sup>2</sup>	Nonwastewater standard Concentration in mg/kg³ unless noted as "mg/L TCLP"	
*	*	*	*	*	*	*	
o-Anisidine (2-methoxyaniline)			90-04-0	0.010	0.66		
*	*	*	*	*	*	*	
p-Cresidine				120-71-8	0.010	0.66	
*	*	*	*	*	*	*	
2,4-Dimethylaniline (2,4-xylidine)			95-68-1	0.010	0.66		
*	*	*	*	*	*	*	
1,3-Phenylenedian	nine						
*	*	*	*	*	*	*	
Footnotes to Table	UTS						

		ANALOGOUG GTATE		STATE A	STATE ANALOG IS:		
FEDERAL REQUIREMENTS	FEDERAL RCRA CITATION	ANALOGOUS STATE CITATION	EQUIV- ALENT	LESS STRIN- GENT	MORE STRIN- GENT	BROADER IN SCOPE	

- 1 CAS means Chemical Abstract Services. When the waste code and/or regulated constituents are described as a combination of a chemical with its salts and/or esters, the CAS number is given for the parent compound only.
- 2 Concentration standards for wastewaters are expressed in mg/L and are based on analysis of composite samples.
- Except for Metals (EP or TCLP) and Cyanides (Total and Amenable) the nonwastewater treatment standards expressed as a concentration were established, in part, based upon incineration in units operated in accordance with the technical requirements of 40 CFR Part 264, Subpart O, or Part 265, Subpart O, or substitution units operating in accordance with applicable technical requirements. A facility may comply with these treatment standards according to provisions in 40 CFR 268.40(d). All concentration standards for nonwastewaters are based on analysis of grab samples.